



	STORAGE TEMPERATURE	-70°C
	BIOSAFETY LEVEL	2

KLEBSIELLA PNEUMONIAE

AR-BANK#0364

Key RESISTANCE:

KPC-mediated carbapenem resistance

PROPAGATION

MEDIUM

Medium: Trypticase Soy Agar with 5% Sheep Blood (BAP)

GROWTH CONDITIONS

Temperature: **35°C**
Atmosphere: **Aerobic**

PROPAGATION PROCEDURE

Remove the sample vial to a container with dry ice or a freezer block. Keep vial on ice or block. (Do not let vial content thaw)

Open vial aseptically to avoid contamination

Using a sterile loop, remove a small amount of frozen isolate from the top of the vial

Aseptically transfer the loop to BAP

Use streak plate method to isolate single colonies

Incubate inverted plate at 35°C for 18-24 hrs.

MIC (µg/ml) RESULTS AND INTERPRETATION

DRUG	MIC	INT	DRUG	MIC	INT
Amikacin	16	S	Colistin	>8	---
Ampicillin	>32	R	Doripenem	4	R
Ampicillin/sulbactam ¹	>32	R	Ertapenem	8	R
Aztreonam	>64	R	Gentamicin	>16	R
Cefazolin	>8	R	Imipenem	4	R
Cefepime	>32	R	Imipenem+chelators ²	4	---
Cefotaxime	>64	R	Levofloxacin	>8	R
Cefotaxime/clavulanic acid ¹	>32	---	Meropenem	4	R
Cefoxitin	>16	R	Piperacillin/tazobactam ¹	>128	R
Ceftazidime	>128	R	Polymyxin B	>8	---
Ceftazidime/avibactam ¹	2	S ³	Tetracycline	8	I
Ceftazidime/davulanic acid ¹	>64	---	Tigecycline	1	S ³
Ceftolozane/tazobactam ¹	32	R	Tobramycin	>16	R
Ceftriaxone	>32	R	Trimethoprim/sulfamethoxazole ¹	>8	R
Ciprofloxacin	>8	R			

S – I – R Interpretation (INT) derived from *CLSI 2016 M100 S26*

¹ Reflects MIC of first component

² Screen for metallo-beta-lactamase production
[Rasheed et al. *Emerging Infectious Diseases*. 2013. 19(6):870-878]

³ Based on FDA break points



BIOSAFETY LEVEL 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *BioSafety in Microbiological and Biomedical Laboratories* (HHS Publication No. (CDC) 21-1112) from the U.S. Department of Health and Human Services, Centers for Disease Control and Prevention and National Institutes of Health.

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